Material Safe	ty Data Sheet –	Graphite Filled – PTFE	<u>Products</u>
SECTION 1 - MANUFACTUR MANUFACTURER'S NAME	ERS INFORMATIO	<u>DN</u> STAN NYLONS	Area
PHONE NUMBER FASCIMILE NUMBER E-MAIL ID	Miraj B : 0091-2 : 0091-2	Block, Miraj – 416 410 (Mal 33-2644468, 2644868, 264 33-2644772 t@h-n.co.in: ceo@h-n.co.i	harashtra) 45772 n
EMERGENCY PHONE NUMB	ER : 0091-9	373054560, 9373056560	
SECTION 2 - PRODUCT IDE PRODUCT NAME SYNONYMS CHEMICAL FAMILY MAJOR APPLICATIONS	NTIFICATION : Graphi : GrFT F : Fluoroo : Sealing	te Filled PTFE Products Products carbon Polymer 9	
SECTION 3 - INGREDIENTS COMPONENTS	INFORMATION CAS NUMBER	R %AGE BY WEIGHT	CHEMICAL FORMULA
Graphite Quartz Silica	9002-84-0 7782-42-5 14808-60-7	5 - 25% 0 - 0.2%	∼C₂F₄∼ C SiO₂
SECTION 4 - HAZARDOUS II COMPONENTS Polytetrafluoroethylene Graphite Quartz Silica	NGREDIENTS CAS NUMBEF 9002-84-0 7782-42-5 14808-60-7	R %AGE BY WEIGHT 75 – 100% 5 – 25% 0 – 0.2%	CHEMICAL FORMULA $\sim C_2F_4 \sim$ C SiO ₂
SECTION 5 - PHYSICAL DAT GENERAL PHYSICAL FORM BOILING POINT MELTING POINT SPECIFIC GRAVITY (H ₂ O=1) EVAPORATION RATE (Butyl SOLUBILITY IN WATER APPEARANCE / COLOUR ODOR	• <u>A</u> acetate=1)	Solid Not applicable 320-340 deg C 2.0 – 2.2 at 25 deg Not applicable Negligible Dark Gray no odor	C
SECTION 6 - FIRE AND EXP	LOSION HAZARD	DATA	
FLASH POINT, METHOD SELF IGNITION TEMPERATU LIMITING OXYGEN INDEX/ M EXTINGUISHING MEDIA	IRE, METHOD 1ETHOD	 530-550 deg C, AS⁻ 520-560 deg C, AS⁻ >95, ASTM D 2863 Noncombustible. Ch surrounding fire 	TM D1929 TM D1929 noose material suitable for
SPECIAL FIRE FIGHTING PR	OCEDURES	: Wear self-contained Wear full protective	d breathing apparatus. equipment.
		temperature Does not burn wi Protect from hydro react with water t Wear neoprene glo from a fir (Polytetrafluoroethy Difficult to ignite, initiating source is spread and low sm with definition "material. High self temperatures (ASTM Hazardous gases/v are hydrogen fluori and potentially toxid	ithout an external flame. ogen fluoride fumes which to form hydrofluoric acid. oves when handling refuse e involving PTFE vlene). and flame goes out when s removed. Limited flame noke generation. Complies of "limited combustible f-ignition and auto-ignition M D1929). vapors produced in a fire de (HF), carbon monoxide, c fluorinated compounds.

SECTION 7 - HEALTH HAZARD DATA

ACUTE EFFECTS	OF EX	POSURE
INGESTION	:	Harmless
EYE CONTACT	:	May cause eye irritation.
SKIN CONTACT	:	Does not irritate human skin.
INHALATION		 Inhalation of fumes from overheating (above 300 deg C) PTFE (Polytetrafluoroethylene) may cause polymer fume fever, a temporary flu like illness with fever, chills, and sometimes cough, of approximately 24 hours duration. Trace amounts of carbonyl fluoride and hydrogen fluoride may also be evolved when PTFE is overheated or burned above 400 deg C. Inhalation of low concentrations of HYDROGEN FLUORIDE can initially include symptoms of choking, coughing, and severe eye, nose, and throat irritation. This is possibly followed after a symptomless period of one to two days by fever, chills, difficulty in breathing, cyanosis, and pulmonary edema. Acute or chronic overexposure to HF can injure the liver and kidneys. Inhalation, ingestion, or skin or eye contact with CARBONYL FLUORIDE may initially include: skin irritation with discomfort or rash; eye corrosion with corneal or conjectural ulceration; irritation of the upper respiratory passages; or temporary lung irritation effect with cough, discomfort, difficulty in breathing, or shortness of breath. Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal
CARCINOGENICI	ΓY·	Regulated
TOXICITY	:	Physiologically inert & no toxicological effects
SECTION 7 - EME	RGEN	CY AND FIRST AID PROCEDURES

INHALATION	:	No specific intervention is indicated as the PTFE Product is not likely to be hazardous by inhalation. Consult a physician if necessary. If exposed from fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.
SKIN CONTACT	:	The PTFE Product is not likely to be hazardous by skin contact.
EYE CONTACT	:	In case of contact, immediately flush eyes with plenty of water and get medical attention if irritation occurs.
INGESTION	:	No specific intervention is indicated as the PTFE Product is not likely to be hazardous by ingestion. If gastrointestinal symptoms develop, get medical attention.

SECTION 8 – PERSONAL PROTECTION / PREVENTIVE MEASURES

RESPIRATORY	:	Where the material temperature is above 300 deg C, use a positive pressure supplied air respirator.
EYE PROTECTION	:	Not normally required.
PROTECTIVE CLOTHING	:	Not normally required.
OTHER PROTECTIVE EQUIPMENT	:	Not applicable.
VENTILATION	:	Provide local exhaust if PTFE Product is heated above 300 deg C.

SECTION 9 - REACTIVITY DATA		
STABILITY	:	Stable
INCOMPATIBILITY (MATERIALS TO AVOID)	:	Molten alkali metals and interhalogen compounds.
HAZARDOUS DECOMPOSITION PRODUCTS	:	When heated above 300 deg C, may cause evolution of particulate matter, which can cause polymer fume fever. When heated above 400 deg, small amounts of hydrogen fluoride and perfluorohydrocarbons such as tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, and carbonyl fluoride may be evolved.
HAZARDOUS POLYMERIZATION	:	Will not occur

SECTION 10 - SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL : IS RELEASED OR SPILLED	Recover undamaged material, clean as needed, and reuse
SECTION 11 - DISPOSAL PROCEDURESWASTE DISPOSAL METHODS RECYCLINGSANITORY LANDFILLINCINERATIONHAZARDOUS WASTE NUMBER	Yes Yes for quantities less than 50 Kgs Yes, with Incineration capable of scrubbing with hydrogen fluoride & other acidic combustion products. Not Regulated
SECTION 12 – STORAGE & HANDLING PROCED PRECAUTIONS TO BE TAKEN : IN HANDLING AND STORAGE :	URES Upto 250 ^o C – No Special Procedures Above 275 deg C, PTFE Product can Evolve toxic gaseous products. Provide good ventilation or respirator if there exists a probability of exceeding 260 deg C.
SPECIAL PRECAUTIONS :	None
SECTION 13 – TRANSPORTATION	
TRANSPORT HAZARDS CLASS ENVIRONMENT HAZARDS SPECIAL PRECAUTIONS FOR TRANSPORTERS	: N.A. : None : None
SECTION 14 – SUITABILITY FOR SPECIAL APPL	LICATIONS
FOOD CONTACT:PHARMACEUTICAL:HUMAN BODY INPLANTS:NUCLEAR:SPACE:	Stable & Inert Not suitable Not suitable Stable Stable
SECTION 15 – INFORMATION ON ECOLOGY This product is considered harmless to the enviro material is biologically inert, non-biodegradable a biological waste treatment plants.	nment and causes no ecological damage. This nd does not interfere with the operation of
CLASSIFICATION :	Not Regulated
SECTION 16 - SUPPLIERS STATEMENT DISCLAIMER :	To the best of our knowledge the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy or completeness of such information. We strongly recommend that users seek and adhere to the manufacturers' or supplier's current instructions for handling each material they use and they satisfy